

What is claimed is:

- 1 1. A heat-resistant plastic tube comprising:
2 a polyester-based elastomer which exhibits a change amount
3 in angle of $\pm 10^\circ$ or less in a shape retainability performance
4 test, a change rate in inner diameter of $\pm 2\%$ or less in
5 a dimensional stability performance test, and a change rate
6 in yield strength of $\pm 30\%$ or less in a flexibility
7 retainability performance test.
- 1 2. The heat-resistant plastic tube according to Claim 1, wherein
2 the tube comprises a single layer comprising a
3 polyester-based elastomer.
- 1 3. The heat-resistant plastic tube according to Claim 1, wherein
2 the tube comprises:
3 an inner layer comprising a polyester-based elastomer and
4 an outer layer formed on an outside of the inner layer and
5 comprising a crystalline polyester-based resin.
- 1 4. The heat-resistant plastic tube according to Claim 1, wherein
2 the tube comprises an inner layer comprising a crystalline
3 polyester-based resin and an outer layer formed on an outside
4 of the inner layer and comprising a polyester-based elastomer.
- 1 5. The heat-resistant plastic tube according to Claim 1, wherein

2 the tube comprises at least an inner layer comprising a
3 polyester-based elastomer, an intermediate layer formed on
4 an outside of the inner layer and comprising a crystalline
5 polyester-based resin, and an outer layer formed on an outside
6 of the intermediate layer and comprising a polyester-based
7 elastomer.

1 6. The heat-resistant plastic tube according to Claim 1, wherein
2 the tube is a fuel feed tube usable within an engine
3 compartment of a motor vehicle.

1 7. The heat-resistant plastic tube according to Claim 2, wherein
2 the tube is a fuel feed tube usable within an engine
3 compartment of a motor vehicle.

1 8. The heat-resistant plastic tube according to Claim 3, wherein
2 the tube is a fuel feed tube usable within an engine
3 compartment of a motor vehicle.

1 9. The heat-resistant plastic tube according to Claim 4, wherein
2 the tube is a fuel feed tube usable within an engine
3 compartment of a motor vehicle.

1 10. The heat-resistant plastic tube according to Claim 5, wherein
2 the tube is a fuel feed tube usable within an engine

3 compartment of a motor vehicle.

1 11. The heat-resistant plastic tube according to Claim 1, wherein
2 the tube further comprises a bellows portion extending at
3 least part of its length.

1 12. The heat-resistant plastic tube according to Claim 2, wherein
2 the tube further comprises a bellows portion extending at
3 least part of its length.

1 13. The heat-resistant plastic tube according to Claim 3, wherein
2 the tube further comprises a bellows portion extending at
3 least part of its length.

1 14. The heat-resistant plastic tube according to Claim 4, wherein
2 the tube further comprises a bellows portion extending at
3 least part of its length.

1 15. The heat-resistant plastic tube according to Claim 5, wherein
2 the tube further comprises a bellows portion extending at
3 least part of its length.

1 16. The heat-resistant plastic tube according to Claim 3, wherein
2 an innermost of the layers has a surface resistivity in a
3 range of from 10^2 to 10^9 $\Omega/\text{sq.}$

1 17. The heat-resistant plastic tube according to Claim 4, wherein
2 an innermost of the layers has a surface resistivity in a
3 range of from 10^2 to 10^9 Ω /sq.

1 18. The heat-resistant plastic tube according to Claim 5, wherein
2 an innermost of the layers has a surface resistivity in a
3 range of from 10^2 to 10^9 Ω /sq.

1 19. The heat-resistant plastic tube according to Claim 13,
2 wherein an innermost of the layers has a surface resistivity
3 in a range of from 10^2 to 10^9 Ω /sq.

1 20. The heat-resistant plastic tube according to Claim 14,
2 wherein an innermost of the layers has a surface resistivity
3 in a range of from 10^2 to 10^9 Ω /sq.

1 21. The heat-resistant plastic tube according to Claim 15,
2 wherein an innermost of the layers has a surface resistivity
3 in a range of from 10^2 to 10^9 Ω /sq.

1 22. A manufacturing method of the heat resistant plastic tube
2 according to Claim 1, the tube having a bent portion,
3 comprising steps of setting a body of a heat resistant plastic
4 tube in a thermal bending mold, heating the tube body in
5 the mold at 190°C or higher and cooling the tube body in

6 a state being set in the mold.

1 23. A manufacturing method of the heat-resistant plastic tube
2 according to Claim 2, the tube having a bent portion,
3 comprising steps of setting a body of a heat resistant plastic
4 tube in a thermal bending mold, heating the tube body in
5 the mold at 190°C or higher and cooling the tube body in
6 a state being set in the mold.

1 24. A manufacturing method of the heat resistant plastic tube
2 according to Claim 3, the tube having a bent portion,
3 comprising steps of setting a body of a heat resistant plastic
4 tube in a thermal bending mold, heating the tube body in
5 the mold at 190°C or higher and cooling the tube body in
6 a state being set in the mold.

1 25. A manufacturing method of the heat resistant plastic tube
2 according to Claim 4, the tube having a bent portion,
3 comprising steps of setting a body of a heat resistant plastic
4 tube in a thermal bending mold, heating the tube body in
5 the mold at 190°C or higher and cooling the tube body in
6 a state being set in the mold.

1 26. A manufacturing method of the heat resistant plastic tube
2 according to Claim 5, the tube having a bent portion,

3 comprising steps of setting a body of a heat resistant plastic
4 tube in a thermal bending mold, heating the tube body in
5 the mold at 190°C or higher and cooling the tube body in
6 a state being set in the mold.